



РОССИЙСКАЯ ФЕДЕРАЦИЯ -
СОЕДИНЕННЫЕ ШТАТЫ АМЕРИКИ

RUSSIAN FEDERATION -
UNITED STATES OF AMERICA



**ИСПОЛНИТЕЛЬНЫЙ
КОМИТЕТ
ОКК ИРВ**

**EXECUTIVE
COMMITTEE
JCC RER**

Четвертое
Совещание

Fourth
Meeting

10-11 июля, 1996 г.
Москва

July 10-11, 1996
Moscow

M E M O R A N D U M

OF FOURTH MEETING

of the Executive Committee to the JCCRER

Moscow

July 10-11, 1996

MEMORANDUM OF FOURTH MEETING
of the Executive Committee to the JCCRER

July 10-11, 1996

The fourth meeting of the Executive Committee of the Joint Coordinating Committee for Radiation Effects Research (JCC RER) was held in Moscow, Russia (List of participants and Agenda are enclosed). The issues discussed were in accordance with the Agenda of Meeting.

1. Progress on EC decisions from July 14-17, 1995 (Memorandum of the 3rd EC Meeting)

The EC discussed the status and update on items. The EC emphasized that the decisions concerning Directions 1 and 2 were fulfilled. The EC identified that work on pilot projects 1.1, 1.2, 2.1, and 2.2 went on in accordance with the implementation plan. During the last period, an appropriate funding for the pilot project 2.3 of Direction 2 was provided. The co-chairs of the EC approved the project, and the work on the project started. Work on Project 3.2 has been initiated. EMERCOM representative emphasized importance of work on Project 3.2.

2. Discussions on effectiveness of previously approved Guidelines for scientific research

The Guidelines for scientific research were approved by the EC in February, 1995. It was taken as a ground for the investigations in Directions 1 and 2. The successful work on Directions 1 and 2 confirmed the efficiency of the adopted Guidelines. Although approved, the EC recognized the need to continuously improve the existing Guidelines, particularly as they relate to the presentation and selection of new projects to be approved by the JCCRER.

3. Progress on implementation of Directions 1 and 2

• Direction 1 *"Medical Aspects of Radiation Exposure Effects on Population"*

The work was supervised by the EC member EMERCOM representative L. I. Anisimova. EMERCOM representative, I. A. Khrushch, reported the summary results for the period 1995-96. The importance of this Direction for the scientific support of the Program for the Urals region was emphasized. According to the Project 1.1, the investigations on the population exposure in the region of the Techa river were summarized for the last 40 years. Two reports were submitted to Russian and American SRG's. Proposals to continue work in this Direction were presented.

- Direction 2 - *"Research of Medical Consequences of Radiation Exposure of the Personnel."*

The work was supervised by M.F. Kiselev, member of EC, representative of the Ministry of Health and Medical Industry. The pilot part of Project 2.1 was conducted by the First Branch of Biophysics Institute of MHMI and Uranium and Transuranium Registry of the USA. Final report summarizing results of the work was submitted to the Russian and American Scientific Review Groups. It was suggested in the report to continue this research in the framework of the Fundamental Project.

The pilot part of project 2.2 was conducted by the First Branch of Biophysics Institute of MHMI. The final report was submitted to the Russian SRG. It was suggested in the report to continue research in the framework of the Fundamental Project.

Project 2.3: the work started on risk assessment for deterministic effects for personnel. Collaboration with American scientists was established. The work on this Project is at the initial stage.

Proposal to create a unified dosimetric data base for Direction 2 was submitted by FIB 1 and MAYAK.

4. Information about character and structure of Russian and American SRG

For the last period, the Russian and American Scientific Review Groups were formed and their staff was adopted (the lists are enclosed). Leading scientists of both countries joined the SRG's. The suggestions of the American side concerning management of the activity of SRG and Regulations were considered. The sides agreed in flexible approach to the management of the organization activities of SRG. The necessity to hold a joint meeting of the Russian and American SRG's prior to the next JCC meeting was agreed to.

5. Review of recommendations of American and Russian SRG

Recommendations of the American Scientific Review Group.

American SRG has analyzed the reports submitted. Two meetings were held. First meeting, January 30, 1996. Convened to receive charge, become acquainted with the program and plan their mode of action. Second meeting, June 19, 1996. Convened to review the program and in particular the long-term proposals: 1.1, 1.2a, 1.2b and 2.1, and evaluate progress on 2.3. Future meetings planned with the participation of the Russian and American scientists.

- Project 1.1 should be revised to refine focus, prioritize goals and integrate with epidemiology**.

- Project 1.2a was adopted on the whole, but some technical amendments should be introduced.*
- Project 1.2b should be revised to integrate with dosimetry and ongoing National Cancer Institute population studies.**
- Project 2.1 was adopted for further funding.*
- Project 2.2 was not submitted to the American SRG for review.
- Project 2.3 was recommended for continued support.

* funding from the American side would be determined

** needs new reviewing in the American SRG

Recommendations of the Russian Scientific Group.

List of Russian SRG was approved in EC meeting of May 24, 1996 with Dr. Pavlovski as a coordinator of SRG work. Final reports on Directions 1 and 2 were submitted to SRG members. Draft of special report was prepared. SRG meeting is planned to be held by the end of August, 1996, to make proposals and perspectives of scientific researches in 1996/1997.

- SRG has approved researches in both Directions. A few recommendations were made for EC how to improve the form of final report.
- Project 1.1. In view of the restricted funding, it is recommended to shift the focus from the retrospective dose reconstruction using mathematical models to instrumental investigations and to estimate expected reliability of dose calculations.
- Project 1.2. The report does not include the last epidemiological data related with the investigation of the population in the region of the Techa river. The work continuation is reasonable only in the case when the SRG would receive a report confirming that work in this direction is going on.
- Project 2.1. It is emphasized that, report form should be changed. However, with respect to its content, it is the most interesting material presented to the SRG. It reveals high level of the Russian-American collaboration. The SRG supports the long-term work plans suggested by the First Branch of the Biophysics Institute.
- Project 2.2. Certain remarks concerning methods of data processing and interpretations are made. In order to solve the problem, it is necessary to enhance American participation in the Project.

6. Report of both sides on management of the financial support of the collaboration.

EC stated that the American side spent the approved funds on financial support of the Agreement in 1995/1996 (including \$400,000 on funding Russian organizations)

The Russian side used different approach to funding of Projects. The funding was implemented by MHMI and EMERCOM. (This funding was done in the framework of the Russian Federal Program for the Ural region). The agreed funding was provided.

American delegation emphasized that the quarterly reports should be submitted in time and meet the requirements of American funding organizations. Dr. Yu. I. Medved', representative of IBRAE, and Dr. M. Bhat, representative of DOE, were charged to coordinate these questions and seek a permanent solution..

7. Review of work on Direction 3

The American representative Col. Glen Reeves and IBRAE representative Dr. R.V.Arutyunyan spoke on this issue. It was suggested to change the approach to determining priority projects of Direction 3, and to start cooperation with a broad exchange of information on the works conducted by both Sides. Two workshops will be scheduled in order to exchange gained experience and determine subject matters for investigations in Direction 3. The first workshop is planned to be in the USA in Fall, 1996, the second one later on in Moscow. The topics of the meetings are enclosed (Attachment 3).

8. Review of new projects and directions

It was decided that activities of the Working Group 7 of the Joint Coordinating Committee for Civilian Nuclear Reactors Safety (JCCCNRS) should be transferred to JCCRER.

Dr. L.A.Bolshov (the Russian side) and Mr. F.Hawkins (the American side) are charged to execute the organizational work. The procedures for consideration and approval of new projects within the Agreement frameworks were discussed. The sides agreed that the SRG should be charged with review of new projects, and EC should solve financial problems.

9. Decision on time and place for the second JCCRER and fifth EC meeting.

- The Sides agreed to conduct the second JCC meeting in Moscow in Autumn 1996 in conjunction with visit to Chelyabinsk.
- The Russian Side suggested to conduct the next meeting in the period November 11-25, 1996. The American Side will attempt to confirm the suggested time in the nearest future.

- It is decided to conduct the next EC meeting in the same time period. In the period prior to November, 1996, representatives implement contacts and meetings between Co-chairs of the Russian and American EC and representatives of SRG as required.

ACTION ITEMS

- Draft a letter relating to transfer of JCCCNRS Working Group 7 activities to JCCRER
-RF US
Hawkins and Bolshov are in charge
- Complete pre-proposal from MAYAK, submit it to the American EC prior to August 20, 1996
-RF
Panfilov and Neta are in charge
- Coordinate with Russians on what US DOE needs in terms of preparing the Quarterly Financial Reports for the Project Directions
-RF US
Medved and Bhat are in charge
- Determine what is needed to improve communication between US and Russian EC members/SRG members and researchers
-RF US
Medved and Bhat are in charge
- Develop strategy and path forward addressing Russian and American SRG comments including priorities/continuation/management/etc.
-RF US
Pavlovski and Weiss are in charge
- Check schedules of US participants for JCC RER/ Cheliyabinsk to be held in November 11-22, 1996
-US
Bhat is in charge
- Conduct Workshop for Direction 3 in Washington, Fall, 1996
-RF US
Reeves and Arutyunyan are in charge

For the US



The EC co-chair
Frank Hawkins

For the RF



The EC co-chair
Leonid Bolshov

Fourth meeting of EC JCC RER

Moscow, July 10-11, 1996

1. Execution of EC decisions from June 17, 1995.
2. Discussions on effectiveness of previously approved documents on scientific research (definition of long term & special projects).
3. Information about charter and structure of Russian and American SRG.
4. Review of Projects 1.1, 1.2, 2.2 and 2.3.
5. Review of recommendations of Russian and American SRG.
6. Report of both parties on organizational aspects of the financial support.
7. Review of progress in planning for Direction 3.
8. Review of new Directions and Projects.
9. Discussion of plans for 1996-1997.
10. Preparation of Agenda for JCCRER in Moscow.
11. Decision on time and place for the 5th EC meeting.

**Participants of the 4th Meeting
of the Executive Committee of the JCC RER**

Moscow, July 10-11, 1996

From the American side:

- Mr. Francis Hawkins - Director, Department of Energy, Executive Committee Co-Chair;
- Dr. Mohandas Bhat - Program Administrator, Department of Energy, Meeting Facilitator;
- Dr. Josef Weiss, Health Scientist, Department of Energy;
- Dr. Peter Henry - Director, Office of Europe, Department of Health & Human Services, EC member;
- Col. Glen Reeves, AFRRI, Department of Defense, EC member
- Dr. Shlomo S.Yaniv, Staff, Nuclear Regulatory Commission, EC member;

From the Russian side:

- Dr. Leonid A. Bolshov - Director, Russian Academy of Sciences Nuclear Safety Institute, Executive Committee Co-Chair;
- Dr. Irina A. Khrushch - Representative of the Ministry of the Russian Federation for Civil Defense Affairs, Emergencies and Elimination of Consequences of Natural Disasters;
- Dr. Mikhail F. Kiselev - Deputy Director, Federal Department, Ministry of Health and Medical Industry of the Russian Federation, EC member;
- Dr. Alexander P. Panfilov - Division Head, Ministry of the Russian Federation for Atomic Energy, EC member.

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Professor Geoffrey Howe, Ph. D.
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Professor David Rush, M.D.
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Biostatistics

Professor Alice Whittemore, Ph. D.
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Dosimetry

John Till, Ph. D.
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Professor John Poston, Ph. D.
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Radiobiology

Professor Rodney Withers, M.D.
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Professor Marvin Goldman, Ph. D.
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Direction 3.

Emergency response. Scientific-technical support of decision-making on protection of the population and territories at radiation accidents and incidents.

To prepare technical project and contract draft on joint cooperation in this direction two seminars are proposed to be held in Russia and in the USA to discuss the following problems:

- Analysis and generalization of Russian experience on protection of the population and rehabilitation of territories at radiation accidents on the example of liquidation of consequences of the Chernobyl accident and incidents on the Southern Urals;
- Exchange of experience in the field of technological support of making decision on protection of the population in case of radiation accidents;
- Exchange of experience on organization and technological maintenance of the top-table exercises and business games;
- Computer codes for estimation, forecasting of consequences and development of counter-measures on protection of the population and territories in case of radiation accidents and incidents;
- Possible radiological consequences of incidents with radioactive materials, including emergency medicine topics.